

SPRING DEVELOPMENT

Design Survey

The following information shall be obtained and recorded in the field notes:

- a. Geologic investigation as required.
- b. Topographic survey as needed to establish location and grades.
- c. Pertinent water surface elevations.

Design Data

The following will be considered minimum in the design of a spring development. This information will be recorded in the design notes or in the field notes.

- a. Hydraulic computations.
- b. Selection of materials.
- c. Quantity computations.
- d. Appurtenance selection.
- e. Records to show that federal environmental regulations have been met.

Drawings and Specifications

Drawings and specifications shall be prepared for all spring development. Standard plans shall be used where applicable. These drawings shall include but will not be limited to the following"

- a. Plan of installation.
- b. Profile and design elevations.
- c. Diameter, type and class of materials.
- d. Appurtenance details.
- e. Table of quantities.
- f. Location map.

Practice specifications along with applicable "Items of Work and Construction Details" shall be provided for each item or phase of construction.

Layout Survey Notes

The following information shall be recorded in the field notes:

- a. Dimension and critical elevations.
- b. Diameters type and class of pipe.
- c. Statement of compliance.

As-Built Plans

As-Built plans shall reflect all significant changes in measurements, materials and quantities. If there were no significant changes, the original drawings shall be marked "As-Built".